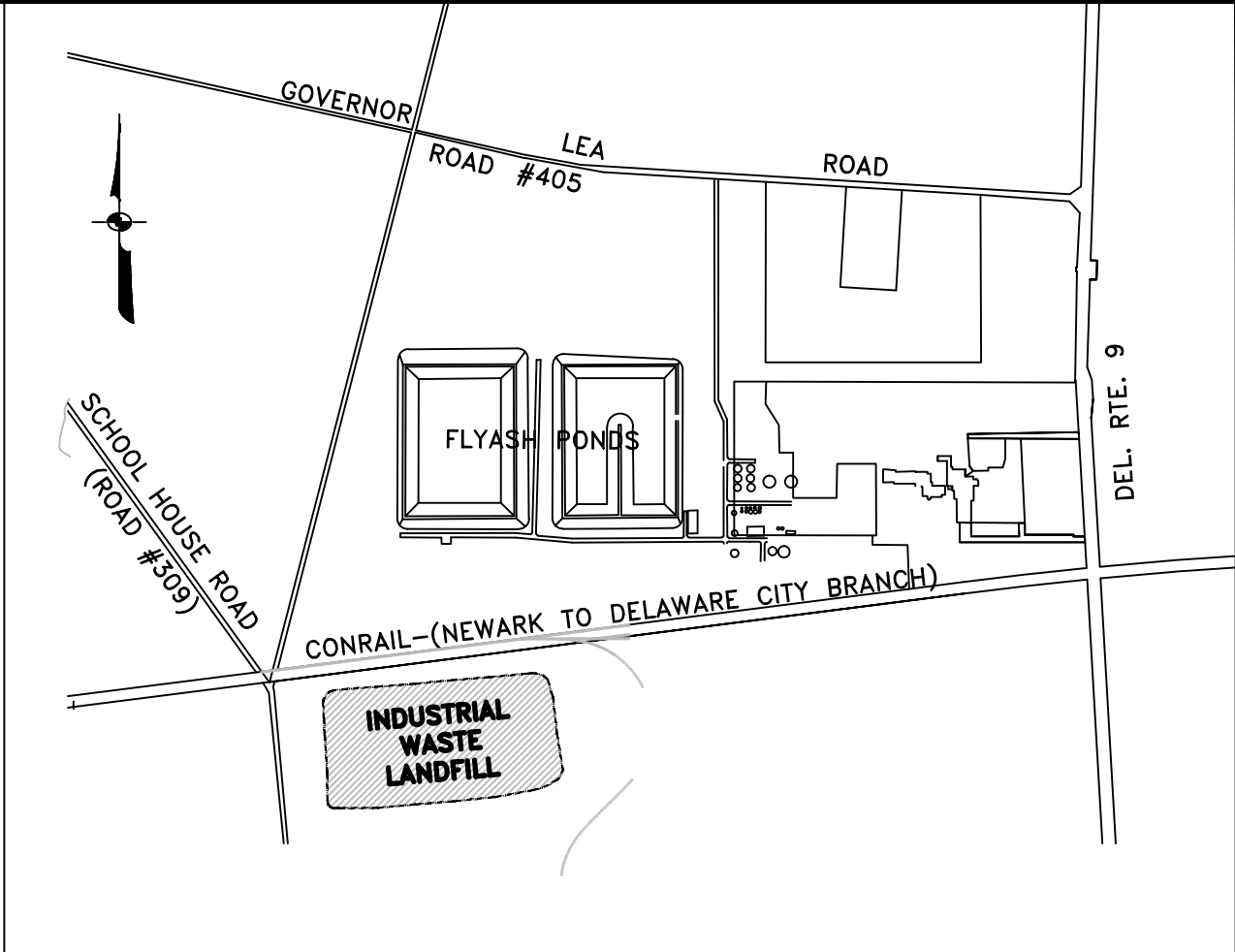
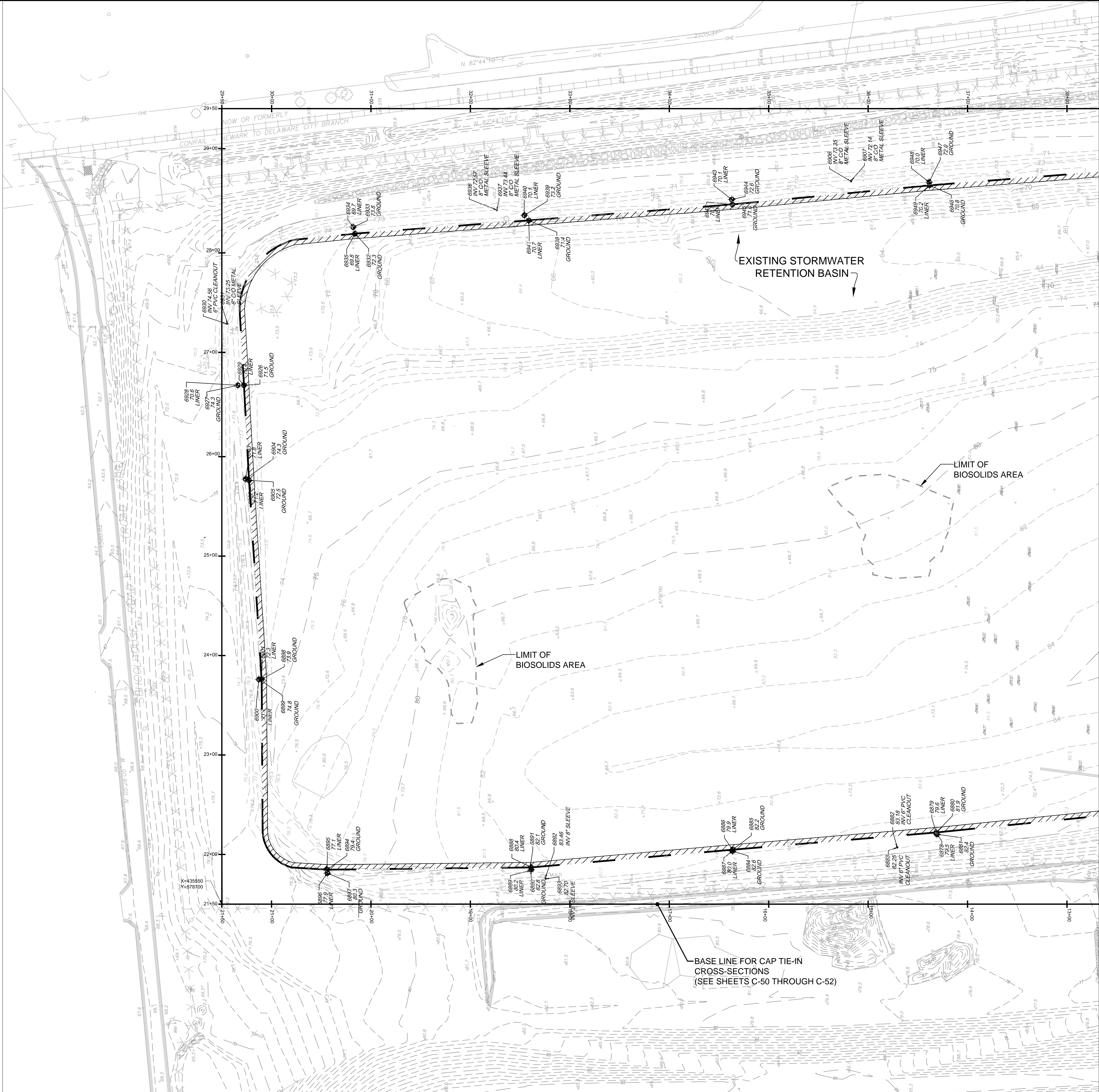


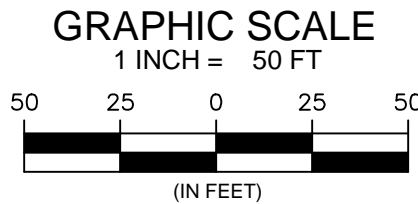
04.10.2005 - 09/14/01 - DNEC Name: K:\03240421-Motiva_MK\Working_Dwg\0324-C22 Cap Grading.dwg Updated By: amthawo



- NOTES
1. THIS DRAWING SHOWS EXISTING INTERIM GRADES ACROSS THE INDUSTRIAL WASTE LANDFILL (IWL). THE INTERIM GRADES WERE ATTAINED USING SOIL MATERIALS APPROVED BY DNREC AS GRADING FILL PLACED UPON THE ORIGINAL LANDFILL GRADES SHOWN ON SHEET C-10. THE EXISTING INTERIM GRADE SURFACE WAS COVERED WITH TEMPORARY SYNTHETIC COVER (TSC) IN JANUARY 2007 THAT WILL SERVE AS A DURABLE INTERIM COVER UNTIL FINAL CLOSURE IS IMPLEMENTED.
 2. ALL SOIL FILL AND DAILY COVER PLACEMENT WORK WAS PERFORMED IN COMPLIANCE WITH THE REQUIREMENTS OF THE DNREC IWL OPERATING PERMIT, DATED FEBRUARY 26, 2004.
 3. THE INTERIM GRADING FILL BUFFER WAS COMPLETED USING COMPACTED CLAY IN ACCORDANCE WITH THE TYPICAL CROSS-SECTION MATERIAL FILL PLACEMENT DETAIL SHOWN ON SHEET C-61, AROUND THE INTERIOR PERIMETER OF THE IWL, EXCEPT FOR THAT LENGTH OF BUFFER ALONG THE NORTHERN LIMIT OF THE TEMPORARY STORMWATER BASIN THAT WILL BE COMPLETED WHEN THE BASIN IS FILLED TO PREPARATORY GRADES.
 4. THE EXISTING TEMPORARY STORMWATER BASIN, LOCATED ACROSS THE NORTHERN PORTION OF THE IWL, CAPTURES STORMWATER RUN-OFF FROM THE TSC INTERIM COVER. THE BASIN ITSELF IS SITUATED ALSO OVER THE TSC INTERIM COVER. THE BASIN WILL REMAIN IN PLACE UNTIL THE NECESSARY STORMWATER IMPROVEMENTS DOWNGRADIENT OF THE IWL HAVE BEEN COMPLETED.
 5. INFORMATION SHOWN HEREON REGARDING SURFACE FEATURES, GROUND TOPOGRAPHY AND PROPERTY/EASEMENT LINES BASED ON A GROUND SURVEY COMPLETED IN APRIL 2005 AND UPDATED THROUGH FEBRUARY 2007 BY VANDEMARK & LYNCH, INC., 4305 MILLER RD., PO BOX 2047, WILMINGTON, DE 19899, (302) 764-7635.
HORIZONTAL DATUM: PREMCOR DELAWARE CITY PLANT
VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM 1929

BENCHMARK: PLANT CONTROL MONUMENT #208 LOCATED APPROXIMATELY 70' WEST OF WEST 6TH STREET AT THE CENTERLINE OF Q STREET EXTENDED AND 43.2' SOUTH OF A CHAIN LINK FENCE. ELEVATION = 65.35'
 6. CONTRACTOR SHALL SECURE ALL PERMITS AND APPROVALS REQUIRED BY VALERO, MOTIVA AND DNREC TO PERFORM THE WORK PRIOR TO COMMENCEMENT OF WORK.

LEGEND	
	EXISTING SPOT ELEVATION
	EXISTING EDGE OF TREES
	EXISTING FENCE
	EXISTING INTERIM MAJOR CONTOUR
	EXISTING INTERIM MINOR CONTOUR
	EXISTING PROPERTY LINE
	EXISTING INTERIOR PARCEL LINE
	EXISTING EDGE OF HEAVY FOLIAGE
	EXISTING ABOVE-GROUND ELECTRIC LINE ALIGNMENT
	EXISTING POLE SUPPORTING ELECTRIC LINE
	EXISTING RAILROAD
	EXISTING STORMWATER CULVERT
	LIMIT OF LANDFILL LINER SYSTEM (APPROX. BOUNDARY OF LANDFILL)
	EXISTING UNPAVED ACCESS ROAD
	INTERIM COVER SOIL BUFFER (SEE SHEET C-40)



REVISIONS				
NO.	BY	CHKD	DATE	DESCRIPTION
1	SMR	JAC	09/30/10	REVISED TO ADDRESS FINAL DNREC COMMENTS
2	SMS	JAC	10/30/07	REVISED TO ADDRESS DNREC COMMENTS
3	SMS	JAC	02/02/06	SUBMITTED WITH CLOSURE PLAN FOR DNREC REVIEW

WARNINGS

0 0.5 1.0

IF THIS SEAL ON THIS PLAN IS NOT RED OR RASED THEN THIS PLAN MAY HAVE BEEN ALTERED AND RECORDED. ORIGINAL SEALS ARE STAMPED IN RED INK OR EMBOSSED WITH A CRIMPING SEAL.

NOT TO SCALE

PLAN CERTIFIED BY:

URS

335 COMMERCE DRIVE, STE 300
FORT WASHINGTON, PA 19034
TEL: (215) 367-2500
FAX: (215) 367-1000

07/01/2009

(Signature)

PETER J. DUJOKO
PROFESSIONAL ENGINEER DE LIC. NO. 9538

PLANS ISSUED BY:

URS

335 COMMERCE DRIVE, STE 300
FORT WASHINGTON, PA 19034
TEL: (215) 367-2500
FAX: (215) 367-1000

DESIGNED BY: ETS 08/05/05

DRAWN BY: SMS 02/02/06

CHECKED BY: JAC 09/30/10

APPROVED BY: JAC 09/30/10

CLIENT APPROVED BY:

DELAWARE CITY REFINERY
INDUSTRIAL WASTE LANDFILL CLOSURE

INTERIM GRADING (EXISTING CONDITIONS) PLAN
WEST SIDE

JOB NO. 20240421 SCALE: 1" = 50'

ORIGINAL DATE: 03/01/05 LAST REVISED: 09/30/10 REV 2

DRAWING NO. C-15